

Charles Duggan LISEF 2007 Grand Award Winners

All First Place Winners Win an All Expense Paid Trip to ISEF 2007

				1 Trip to ISEF 2007
	Award	Name	School	Title
	Best in Category	Mary Martha Douglas	Manhasset High School	Potential Physiological Difficulties Associated with the White Gene as a Phenotypic Marker in w1118 and CS Drosophila
		Sarah Cordova	Kings Park High School	An evaluation of the effects of No toys, A suspended toy, and a Free Toy on the negative and positive behaviors of weaned pigs.
	First	Mary Martha Douglas	Manhasset High School	Potential Physiological Difficulties Associated with the White Gene as a Phenotypic Marker in w1118 and CS Drosophila
		Scott	Syosset High	Adolescent Tanning as
		Greenberg	School	Dependent Behavior
Behavioral Sciences		Sarah Kirsch	Ward Melville High School	Gender Differences in Hypersensitivity Behavior in a Rat Model of Autism
	Second	Eric Ascher	Oceanside High School	Improving Comprehension and Compliance with Informed Consent for Research
		Matthew Jeffreys	Plainedge High School	Many Schools Left Behind: An Economics Analysis of the Efficiency and Equity of Funding Streams Under No Child Left Behind and their applications to Specific Demographics
		Michael Klein	Lawrence High School	Hypnopaedia: A Study on the Ability To Learn While Sleeping
		Alec Slatky	Massapequa High School	Voter Preferences Modeled Under Hierarchal Clustering Conditions

		Maria Gordon	W. T. Clarke High School	All In? How High are the Stakes?: A Longitudinal Analysis of Adolescent Gambling in a Suburban Cohort
		Raymond Kim	Roslyn High School	The Effects of Smoking on Teenagers
	Third	Jenessa Malin	Syosset High School	The Relationship Between Adolescent Self-control and Music and Movie Piracy
		Lucas Neill	Roslyn High School	The Effect of Clothing Type and Color on Perceived Competitiveness and Ability of Basketball Players
		Lauren Fleischer	South Side High School	An Exploration of the Relationship between Weight Loss Advertising and Demographics
		Azadeh Issapour	Syosset High School	Assessing Trust Levels of Teenagers and their Parents in Major Institutions
		Jessica Nussbaum	Roslyn High School	Can Social Norms Messages Decrease Teens' Drinking Behavior and Attitudes More Than Traditional messages?
	Honorable Mention	Candace Receno	W. C. Mepham High School	Investigating the "Middle Seat Syndrome". A Study on Commuter Seat Selection and Territoriality
		Katherine Schneider	Lawrence High School	Why Won't Your Notice Me? How the Identity of the Reporter Influences the Under-Diagnosis of Girls With ADHD
	Mingyang Shan	Sanford H. Calhoun High School	A Comparison of Alcohol Metabolism Rates of Whites and Asians within Conditioned Light and Heavy Drinking Levels	
	Award	Name	School	Title
Biochemistry	Best in Category	Stacy Feinsot	Lawrence High School	The Synthesis and Characterization of Innate Immunity Inhibitors

		Stacy Feinsot	Lawrence High School	The Synthesis and Characterization of Innate Immunity Inhibitors
	First	Leah Libresco	The Wheatley School	Identifying Anticancer Drug Targets through a Novel Synthesis of RNAi and Microarray Technology
	Second	Steve Benay	Smithtown High School West	Structure and Membrane Interactions of FNIII-1, a Fibronectin Growth Factor Binding Domain, in Complex with Platelet-Derived Growth Factor
		Kenneth Mandel	North Shore High School	The Effects of Human Growth Hormone and Insulin-Like Growth Factor-I on Bovine Articular CArtilage Extra-Cellular Metabolism
	Third	Shirin Bajaj	Syosset High School	The Application of Potentiometric Response and Polyaniline Films to the Creation of an Antibody- Antigen Biosensor
		Crystalee Forbes	Uniondale High School	Cell growth, Cytoskeletal structure, and Protein Expression in the presence of Cloisite Na+
	Honorable Mention	Siddharth Ninan	Paul D. Schreiber High School	Optimization of Ethanol Production in Saccharomyces cerevisiae Using Glucose Metabloism Models and MATLAB
Mention	menden	Christine Perry	Kings Park High School	Determining the Target Cells of CNGA5-Positive Synaptic Terminals in the Zebrafish Pituitary
	Award	Name	School	Title
Botany/ Zoology	Best in Category Botany	Scott Peters	John F Kennedy High School - Bellmore	Analysis of the Arabidopsis FUSED Ortholog: Is it Required for Cell Division?
	Best in Category Zoology	Max Levy	Sanford H. Calhoun High	Orthologs and paralogs in a multi-species

			School	analysis of the evolution of the type II hair keratins
	First	Scott Peters	John F Kennedy High School - Bellmore	Analysis of the Arabidopsis FUSED Ortholog: Is it Required for Cell Division?
	Second	Max Levy	Sanford H. Calhoun High School	Orthologs and paralogs in a multi-species analysis of the evolution of the type II hair keratins
	Third	Matthew Klebanoff	John F Kennedy High School- Bellmore	Possible role of the cytoskeleton in cotton (Gossypium hirsutum, cultivar MD51) fiber development
		Adam Borowski	Plainview Old Bethpage JFK High School	interactions
		Erica Brown	Bellport High School	Management of Phragmites australis with the Injection of a Saline Solution
	Honorable Mention	Stephanie Goldstein	Oceanside High School	A Study of Stranded Grey Seals on Long Island, New York
	Mendon	Chris Ravn	South Side High School	The Effect of the Presence of the Predatory Asian Shore Crab Hemigrapsus sanguineus on the Shell Possession Behavior of the Hermit Crab Pagurus longicarpus
	Award	Name	School	Title
	Best in Category	Michael Ding	Glen Cove High School	DNA Electrophoresis on Nanoporous Polyethersulfone Membrane Surfaces
Chemistry	First	Michael Ding	Glen Cove High School	DNA Electrophoresis on Nanoporous Polyethersulfone Membrane Surfaces
	Second	Samuel Breidbart	Syosset High School	Conserving History: Using a Ferrozine/Hydroquinone treatment to Inhibit Cellulose Oxidation Caused by Iron Gall Ink
	Third	Alex Yang	Brentwood High	Electron Transfer in

			School	Oligofluorenes for Application in Photovoltaic Cells
	Award	Name	School	Title
	Best in Category Computer Science	Theodore Tzanetos	Plainview Old Bethpage JFK High School	Aiding the Visually Impaired Through the use of Integrated Computer Systems
	Best in Category Mathematics	Eric Sporkin	Syosset High School	Reptend primes in alternate bases
	First	Theodore Tzanetos	Plainview Old Bethpage JFK High School	Aiding the Visually Impaired Through the use of Integrated Computer Systems
Computer	Second	Eric Sporkin	Syosset High School	Reptend primes in alternate bases
Science/ Mathematics	Third	Stefan Muller	Paul D. Schreiber High School	The Effects of 3D Transformations on Volume and Surface Area
	Honorable Mention	Matthew Alpert	Lawrence High School	A Novel Proof of Crossing Numbers and An In-Depth Investigation of the Relationship Between the Maximal and Minimal Crossings of Complete Graphs
		Kenneth Bongort	North Shore High School	Collusion-Secure Fingerprinting for Java Code
	Award	Name	School	Title
	Best in Category Environmental Science	Rachel Stephan	Kings Park High School	Development of a novel method for eliminating polychlorinated biphenyls from the environment.
Earth/ Environmental/ Space Sciences	Best in Category Space Science	Fangfei Shen	Roslyn High School	Cataloguing Significant Galactic Events as Gravitational-Wave Search Candidates
	First	Rachel Stephan	Kings Park High School	Development of a novel method for eliminating polychlorinated biphenyls from the environment.
	Second	Fangfei Shen	Roslyn High School	Cataloguing Significant Galactic Events as Gravitational-Wave Search Candidates
	Third	Matthew	Harborfields High	The American Slipper

		Reichert	School	Snail (C. Fornicata) as
		Reichert	SCHOOL	,
				an alternate prey item
				for the sea star A.
				Forbesi, to the benefit of
				the Eastern Oyster (C.
				Virginica).
				Comparative river
		Alexis	Paul D. Schreiber	characterization and
		Mychajliw	High School	ecological study of two
	Honorable			Hudson River tributaries
	Mention			The Effect of Varying
	Mention	Erin	Syosset High	Phosphorous
		Steigerwald	School	Environments on the
		Steigei wald	Scriooi	Growth of
				Cyanobacteria
	Award	Name	School	Title
				Synthesis of Novel
	Best in	Nandini	Herricks High	Cupric Oxide (CuO)
	Category	Venkateswaran	School	Nanostructures for Gas
	Category	Velikaleswalali	301001	Sensing and Catalysis
				Applications
				Synthesis of Novel
		Nandini	Herricks High	Cupric Oxide (CuO)
	First	Venkateswaran	School	Nanostructures for Gas
		Velikaleswarali	301001	Sensing and Catalysis
				Applications
				Polymer Confinement in
			North Shore	3D & NanoParticle
	Second	Jason Strauss	Hebrew Academy	Stabilization:
Engineering			High School	The Miniaturization of
Linginicering				NanoLithography
				Controlled release study
	Third	Maxinder Soni	The Wheatley	of biodegradable
			School	nanofibers incorporated
				with lidocaine
				Macro to
				Nanomechanics study of
		Alexander	Manhasset High	different length auxetic
		Egan	School	foam specimen infused
	Honorable			with various nanosized
	Mention			particles
		Daniamin	One of Nie els Nie wife	Investigation of Flexural
		Benjamin Mueller	Great Neck North	Properties of
		Mueller	High School	Functionally Graded
	Award	Name	School	Syntactic Foams Title
	Awaru	Name	School	Sophorolipids: A Novel
	Best in			Therapy for Asthma and
Medicine &	Category	Michael Hagler	Rambam Mesivta	Other Diseases of
Health	- Jakogoi y			Altered IgE Regulation
				Sophorolipids: A Novel
		Michael Healer	Dombom Mooisto	Soprioronpido. A NOVEL
	First	Michael Hagler	Rambam Mesivta	Therapy for Asthma and

			Other Diseases of
			Altered IgE Regulation
	Kristin Hall	Smithtown High School East	Inducing Stem Cell Differentiation and Detecting Cancer on the Single-Cell Level Using Biomechanics
	Jenna Kahn	Roslyn High School	Do pediatricians obtain enough information to detect patients at risk for hypertrophic cardiomyopathy?
	Benjamin Jaffe	Paul D. Schreiber High School	JNK inhibition by siRNA in an oxidant injury model
Second	Olivia Swanson	Kings Park High School	Determining the Effect of 4-phenylbutyrate on the Expression of Connexin-43 in Cervical Cancer Cells and Cardiomyocytes
	Qi Yu	Jericho High School	Nox2 NADPH oxidase- derived free radicals play an important role in cortex-controlled motor activity.
	Nicole Khezri	Great Neck North High School	The Role of Integrin- Linked Kinase in Wound Healing: Contractile Signaling and Extracellular Matrix Organization
Third	Alison Liu	Manhasset High School	glia maturation factor binding protein in c6 glioma cells, n18 neuroblastoma cells and moue brain homogenate.
	Jennifer Schindler	Oceanside High School	Gene Polymorphisms Associated with Mutant Biomarkers in Vinyl Chloride Factory Workers
Honorable Mention	Christopher Catalano	Paul D. Schreiber High School	Microvascular Abnormalities In Contact Lens Users: A Real- Time Computer- Assisted Intravital Microscopic Study
	Ankuri Desai	Ward Melville High School	Engineering Pluronic Polymer Hydrogels for Simulation of Synovial

				Fluid
		Joshua Kaufman	Ward Melville High School	Thuid The vital roles of connexin 40 and connexin 32 in cardiac conduction and homeostasis
		Aashish Shah	Half Hollow Hills High School West	Genetic Investigation of Syndromes Caused by X Chromosome Abnormalities
	Award	Name	School	Title
	Best in Category	Matthew Seigerman	Herricks High School	Isolation and Characterization of wasabia japonica as a potential natural antibiotic
Microbiology	First	Matthew Seigerman	Herricks High School	Isolation and Characterization of wasabia japonica as a potential natural antibiotic
	Second	Denisha Bacchus	Elmont Memorial High School	Decoding the Role of Quorum Sensing in Nonpathogenic Biofilms
	Third	Justin Schumacher	Smithtown High School West	Metabolic Abnormalities In HIV-1 Infection
	Honorable Mention	Tyler Mantaring	Elwood-John H. Glenn High School	The Antibacterial Effects of Tea Tree Oil
		Christine Schindler	Oceanside High School	The Fluorescence Intensity of GFP in Measuring Legionella pneumophila
	Award	Name	School	Title
	Best in Category	Hamsa Sridhar	Kings Park High School	The Construction and Optimization of an Inverted Optical Tweezers
Physics	First	Hamsa Sridhar	Kings Park High School	The Construction and Optimization of an Inverted Optical Tweezers
	Second	Benjamin Leibowicz	Great Neck North High School	The Tolman VII Solution and the Upper Limit to the Central Density of a Neutron Star
	Third	Ruizhi (Rebecca) Yu	Ward Melville High School	On the Brink of Chaos: Study Of Fermi-Pasta- Ulam Effects In 2D
	Honorable Mention	Lindsey Garay	Oceanside High School	A Virtual Instrument and Magnetic Field Environment for a

				Microscopic Magnetic Atom Trap
		Victoria Hung	Smithtown High School West	A Novel Mathematical Model of Single and En Masse Fibroblast Migration on Hydrogels
	Award	Name	School	Title
	Best in Team Category	Jinju Yi and Vijay Jain	Plainview Old Bethpage JFK High School / Herricks High School	Surface Molecular Imprinting of a Nanoscale Transducer for the Early Detection of Cancer
		David Chang and Lukasz Mosakowski	Manhasset High School	Microfluidic Mixing by Segmented Flow
		Erin D'Agostino and Whitney Quackenbush	Manhasset High School	Exploring the Effects of Various Stressors on the Body Fat Storage and Content of Invertebrate Model Organisms Drosophila melanogaster Caenorhabditis elegans
		Adam Fields and Alex Ramek	Jericho High School/ Hebrew Academy Of The Five Towns And Rockaways	Detecting Cancer in Living Tissue with Single Cell Prescision
Teams	First	Emily Levine and Danielle Lent	Stella K Abraham High School For Girls	Optimizing Recycled Polymer Blends Using Supercritical Carbon Dioxide
		Daniel Stewart and Adam Johnson	Paul D. Schreiber High School	An Algorithm for Removing Event Pileup and its Application to 200 GeV Au+Au Collisions at RHIC
		Jonathan Suncar and Kemeisha Patterson	Uniondale High School	Making your enemy your friend:using integrated pest management of noxious weed extract (ipm)
		Matthew Woo and Austin Chang	Manhasset Hs	The Effect of Fluid Mechanical Pressure on Regeneration in Planarian
		Jinju Yi and Vijay Jain	Plainview Old Bethpage JFK High School / Herricks High School	Surface Molecular Imprinting of a Nanoscale Transducer for the Early Detection of Cancer
	Second	Vikas Anand	Jericho High	A Novel Technique for

	and Esther Kwak	School	the Fabrication of Alginate Microspheres for the Sustained Release of Lidocaine
	James Corines and Chuan Hao Chen	Manhasset High School	Silver Nanoparticles as an Antibiotic Agent for P.putida, P. fluorescens, and S. epidermidis Biofilms
	Jacob Loewenstein and Brienne Kugler	Hebrew Academy Of The Five Towns And Rockaways/ Jericho High School	Controlling Metal/Polymer Adhesion: The Enhancement of Microlithography and The Formation of Nanowires
	Shuo Qiu and John Kucharczyk	Manhasset High School	Characterization of NOAA Active Region 10930
	Jeanette Cheng and Chen Zhang	William A. Shine Great Neck South High School	Transcutaneous Electrical Nerve Stimulation Promotes the Production & Release of Nitric Oxide in Nerve Tissue
Third	Marina Kondo and Sangmi Ahn	Plainview Old Bethpage JFK High School	Motivations For Volunteering
	Radha Parameswaran and Victoria Smith	Plainview Old Bethpage JFK High School	Determining the Mechanisms of Salt Tolerance in Invasive Japanese Knotweed
	Charles Warshaw and Taylor Oshan	W. C. Mepham High School	The effect of Thermal Compound Composition on Computer Performance
	Valerie Craven and Jennifer Kistama	Long Beach Senior High School	Vaccines from Bacteria Incapable of Survival in Homeotherms
	Lara Fourman and Mehwish Ansari	Plainview Old Bethpage JFK High School	Popular Views of Presidential Power
Honorable Mention	Daniel Fourman and Jake Bryant	Ward Melville High School	Methane Hydrate: A Revolutionary Alternative Energy Source.
	Shyam Rajan and Amrita Ramakrishnan	Half Hollow Hills High School West/Ward Melville High School	Hydrogen Peroxide and Parkinson's Disease

	Dhruv Vasishtha and Brian Lee	Roslyn High School/Manhasset High School	the effects of levodopa and nicotine on the cyp2d6 enzyme: the discovery of a healthier morphine
	Matthew		Three-Dimensinal
	Zaringhalam	Massapequa High	Columnar Landslide
	and Michelle	School	Model Developement
	Bowers		and Anyalysis